

Atty. Dkt. No. 038602-122

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Peng-Cho TANG, et al.

Title:

INDOLINONE COMBINATORIAL LIBRARIES

AND RELATED PRODUCTS AND METHODS

FOR THE TREATMENT OF DISEASE

Appl. No.:

09/897,755

Filing Date:

07/03/2001

Examiner:

Not Yet Assigned

Art Unit:

1627

# INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.56

Commissioner for Patents Box PATENT APPLICATION Washington, D.C. 20231

Sir:

Applicants submit herewith on Form PTO-1449 a listing of the documents cited by the U.S. PTO on Forms PTO-892, or submitted to the U.S. PTO in parent application Serial No. 08/702,232, filed 08/23/1996. As provided in 37 CFR §1.98(d), copies of the documents are not being provided since they were previously submitted to the United States Patent & Trademark Office in the above-identified parent application.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

Atty. Dkt. No. 038602-1220

## TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

## **RELEVANCE OF EACH DOCUMENT**

The relevance of the foreign-language documents is explained in the parent application.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO-1449 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

**FOLEY & LARDNER** Customer Number: 22428

\*22428\*

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PATENT TRADEMARK OFFICE

(202) 672-5475 Telephone: Facsimile: (202) 672-5399 Respectfully submitted,

Beth A. Burrous

Attorney for Applicant

Registration No. 35,087

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Al	Howard, Provisional Patent Application No. 60/015,134 filed March 29, 1996 for "Lactam Derivatives"
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## **FORM PTO-1449**

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LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S
INFORMATION DISCLOSURE STATEMENT 1.

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SERIAL NO. 09/897,755

**APPLICANT:** 

Peng Cho Tang et al.

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### **U.S. PATENT DOCUMENTS**

EXAMINER INITIAL				DOG.	MENT	NUMB	er —		DATE	NAME	CLASS	SUB CLASS	FILING DATE
	AA	2	9	6	8	5	5	7	01/17/61	Burgardt et al.		, <u> </u>	
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LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT  O P E (Use several sheets if necessary)	APPLICANT: Peng Cho Tang et	CAR TN	O
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RADEMA	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	Abramovitch et al., "A Novel Synthesis of a Cyclic Hydroxamic Acid Involving a Molecular
CJ	Rearrangement," Chemistry and Industry 44:1871 (1967)
СК	Abramovitch and Hey, "Internuclear cyclisation," J. Chem. Soc. pp. 1697-1703 (1954)
CL	Akbasak and Suner-Akbasak et al., "Oncogenes: cause or consequence in the development of glial tumors," J. Neurol. Sci. 111:119-133 (1992)
СМ	Andreani et al., "Synthesis and cardiotonic activity of 2-indolinones," Eur. J. Med. Chem. 25:187-190 (1990)
CN	Andreani et al., "Synthesis and cardiotonic activity of 2-indolinones bearing pyridyl groups," Eur. J. Med. Chem. 28:653-657 (1993)
со	Andreani et al., "Synthesis of lacatams with potential cardiotonic activity," <u>Eur. J. Med. Chem.</u> 28:825-829 (1993)
СР	Andreani et al., "Synthesis and cardiotonic activity of pyridylmethylene-2-indolinones," <u>Eur. J. Med. Chem.</u> 27:167-170 (1992)
CQ	Arteaga et al., "Blockade of the type I somatomedin receptor inhibits growth of human breast cancer cells in athymic mice," <u>I. Clin. Invest.</u> 84:1418-1423 (1989)
CR	Autrey and Tahk, "The Synthesis and Sterochemistry of Some Isatylideneacetic Acid Derivatives," <a href="Tetrahedron">Tetrahedron</a> 23:901-917 (1967)
CS	Bahner et al., "Benzylideneindenes with Oxygen Attached to the Indene Ring," <u>I. Med. Chem.</u> 12:721-722 (1969)
ст	Bamfield et al., "Diels-Alder Reactions of Oxindolylideneacetone," <u>J. Chem. Soc. (C)</u> pp. 1028-1030 (1966)
CU	Baserga, "Oncogenes and the strategy of growth factors," Cell 79:927-930 (1994)
cv	Baserga, "The insulin-like grwoth factor I receptor: a key to tumor growth?" Cancer Res. 55:249-252 (1995)
cw	Blake and Jaques, "Anisotropic Effects in alpha-substituted methoxystilbenes," J. Chem. Soc. Perkin II pp. 1660-1663 (1973)
СХ	Bolen et al., "The Src family of tyrosine protein kinases in hemopoietic signal transduction," <u>FASEB</u> <u>1.</u> 6:3403-3409 (1992)
СҮ	Bolen, "Nonreceptor tyrosine protein kinases," Oncogene 8:2025-2031 (1993)
CZ	Borsche et al., "Uber nielkernige kondersierte systeme mit heterocyclischen ringen," <u>Liebigs Ann.</u> <u>Chem.</u> 550:160-174 (1941)
DA	Buzzetti et al., "Cinnamamide Analogs as Inhibitors of Protein Tyrosine Kinases," <u>Il Farmaco</u> 48:615-636 (1993)
DB	Canoira and Rodriguez, "Synthesis of Oxindole Derivatives from N-Alkenyl-o-Chloroanilides with Zero-Valent Nickel Complex," J. Heterocyclic Chem. 22:1511-1518 (1985)
DC	Chatten et al., "Substituted Oxindoles. Part VI. Polargraphic Reduction of Substituted trans-3-benzylideneindol-2(3H)-ones," <u>I. Chem. Soc. Perkin II</u> pp. 469-473 (1973)
· DD	Coda et al., "(Z)- and (E)-Arylidene-1,3-dihydroindol-2-ones: Configuration, Conformation and Infrared Carbonyl Stretching Frequencies," <u>I. Chem. Soc. Perkin 11</u> pp. 615-619 (1984)
DE	Coppola et al., "A functional insulin-like growth factor I receptor is required for the mitogenic and transforming activities of the epidermal growth factor receptor," Mol. Cell. Biol. 14:4588-4595 (1994)

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FORM PTO-1449	ATTY. DE KET NO. 38602/1220	SERIAL NO. 09/897,755
LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)	APPLICANT: Peng Cho Tang et al.	
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DF	Daisley, "Thin-layer chromatographic separation of some substituted 3-benzylidine-indol-2(3H)-
	ones," <u>L. Chromatography</u> 100:240-242 (1974)
DG	Dati et al., "Inhibition of c-erbB-2 oncogene expression by estrogens in human breast cancer cells,"  Oncogene 5:1001-1006 (1990)
DH	De Vries et al., "The fms-Like Tyrosine Kinase, a Receptor for Vascular Endothelial Growth Factor," <u>Science</u> 255:989-991 (1992)
DI	Decker and Lohmann-Matthes, "A quick and simple method for the quantitation of lactate dehydrogenase release in measurements of cellular cytotoxicity and tumor necrosis factor (TNF) activity," J. Immunol. Methods 15:61-69 (1988)
DJ	Dickson et al., "Tyrosine kinase receptor-nuclear protooncogene interactions in breast cancer," <u>Cancer Treatment Res.</u> 61:249-273 (1992)
DK	Elliott and Rivers, "Reduction of some oxindolylidene derivatives to 3-substituted oxindoles by sodium borohydride," <u>I. Org. Chem.</u> 29:2438-2440 (1964)
DL	Fantl et al., "Distinct Phosphotyrosines on a Growth Factor Receptor Bind to Specific Molecules That Mediate Different Signaling Pathways," Cell 69:413-423 (1992)
DM	Fendly et al., "Characterization of Murine Monoclonal Antibodies Reactive to Either the Human or Epidermal Growth Factor Receptor or HER2/neu Gene Product" Cancer Research 50:1550-1558 (1990)
DN	Ferrara and Henzel, "Pituitary Follicular Cells Secrete a Novel Heparin-Binding Growth Factor Specific for Vascular Endothelial Cells," <u>Biochem. Biophys. Res. Commun.</u> 161:851-858 (1989)
DO	Fingl and Woodbury, Chapter 1, pp.1-46 in The Pharmacological Basis of Therapeutics (5th edition),eds. Goodman et al., MacMillan Publishing Co., Inc., New York (1975)
DP	Floege et al., "Factors involved in the regulation of mesangial cell proliferation in vitro and in vivo," Kidney International 435:47-54 (1993)
DQ	Folkman and Shing, "Angiogenesis," J. Biol. Chem. 267:10931-10934 (1992)
DR	Folkman, "What is the Evidence that Tumors are Angiogenesis Dependent?" <u>Journal of the National Cancer Institute</u> 82:4-6 (1990)
DS	Goldring, "Cytokines and cell growth control," <u>Critical Reviews in Eukaryotic Gene Expression</u> 1:301-326 (1991)
DT	Gottardis et al., "Estradiol-Stimulated Growth of MCF-7 Tumors Implanted in Athymic Mice: A Model to Study the Tumoristatic Action of Tamoxifen," <u>I. Steroid Biochem.</u> 30(1-6):311-314 (1988)
טט	Hewgill and Stewart, "Phenanthrene-4,5-quinones: a Synthesis of Morphenol," <u>I. Chem. Soc. Perkin Trans. I</u> pp. 1305-1311 (1988)
DV	Hodges et al., "Chemical and biological properties of some oxindolidyl-3-methines," <u>Canadian I.</u> <u>Chemistry</u> 46:2189-2194 (1968)
DW	Honegger et al., "Point Mutation at the ATP Binding Site of EGF Receptor Abolishes Protein- Tyrosine Kinase Activity and Alters Cellular Routing," Cell 5:199-209 (1987)
DX	Houck et al, "Dual Regulation of Vascular Endothelial Growth Factor Bioavailability by Genetic and Proteolytic Mechanisms," J. Biol. Chem. 267:26031-26037 (1992)
DY	Howard et al., "Synthesis and aldose reductase inhibitory activity of substituted 2(1H)-benzimidazolone- and oxindole-1-acetic acids," <u>Eur. J. Med. Chem.</u> 27:779-789 (1992)
DZ	ljaz et al., "The Conversion of o,β-Dinitrostyrenes into Indoles and the Preparation of Oxindole Quinones," J. Chem. Res. (S) pp. 116 (1990)

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FILING DATE: 7/3/01

GROUP: 1627

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	EA	Jellinek et al., "Inhibition of Receptor Binding by High-Affinity RNA Ligands to Vascular Endothelial Growth Factor," <u>Biochemistry</u> 33:10450-10456 (1994)	
	EB	Katritzky et al., "Color and Constitution. Part 8[1]. Some Novel Dyestuffs Containing Indoxyl Residues," J. Heterocyclic Chem. 25:1287-1292 (1988)	
	EC	Kendall and Thomas, "Inhibition of vascular endothelial cell growth factor activity by an endogenously encoded soluble-receptor," Proc. Natl. Acad. Sci. USA 90:10705-10709 (1993)	
	ED	Khalil and Abdel-Rahman, "Synthesis of New Mero- and Asymmetrical Pyrazolo-Monomethine Cyanine Dyes," J. Indian Chem. Soc. 54:904-907 (1977)	
	EE	Kim et al., "Inhibition of vascular endothelial growth factor-induced angiogenesis suppresses tumour growth in vivo," Nature 362:841-844 (1993)	
	EF	Kinsella et al., "Protein Kinase C Regulates Endothelial Cell Tube Formation on Basement Membrane Matrix, Matrigel," Exp. Cell Research 199:52-62 (1992)	
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Page 1 of 1 U.S. DEPARTMENT OF COMMERCE Form PTO-1449 ATTY. DOCKET NO. SERIAL NO. (MODIFIED) PATENT AND TRADEMARK OFFICE 09/897,755 38602-1220 **APPLICANT** ENERMATION DISCLOSURE CITATION Tang, et al. FILING DATE **GROUP ART UNIT** MAR 0 1 2002 Subse several sheets if necessary) 7-3-01 1627 **U.S. PATENT DOCUMENTS** FILING DATE DOCUMENT EXAMINER SUB-DATE **REF** CLASS NAME INITIAL **CLASS** NUMBER **APPROPRIATE** A1 5,565,324 Oct. 15, 1996 Still, et al. 435 6 Apr 13, 1994 Oct 11, 1977. Rovnyak, et al. 424 **A2** 4,053,613 246 Sep 17, 1975 Rovnyak . 4,002,749 Jan 11, 1977 Aug 12, 1975 424 246 **A3** FOREIGN PATENT DOCUMENTS TRANSLATION **DOCUMENT** SUB-**CLASS** COUNTRY DATE REF NUMBER **CLASS** YES NO Feb 26, 1998 WO 98 07695 A Europe X A4 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) **EXAMINER DATE CONSIDERED** EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.